

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/013630

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G10L19/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G10L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category <sup>o</sup>	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 95/30983 A (GEORGIA TECH RESEARCH CORPORATION) 16 November 1995 (1995-11-16) cited in the application page 3, line 35 - page 4, line 23 page 5, line 11 - line 12; claim 3; figures 1,17,28 page 10, line 3 - page 12, line 10	1,12,13, 15,16
Y	DAVID P A M-S ET AL: "Refining the digital spectrum" CIRCUITS AND SYSTEMS, 1996., IEEE 39TH MIDWEST SYMPOSIUM ON AMES, IA, USA 18-21 AUG. 1996, NEW YORK, NY, USA, IEEE, US, vol. 2, 18 August 1996 (1996-08-18), pages 767-770, XP010222730 ISBN: 0-7803-3636-4 page 770, right-hand column, line 15 - line 24	1,12,13, 15,16

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## ° Special categories of cited documents :

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Date of the actual completion of the international search

21 March 2005

Date of mailing of the international search report

06/04/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WIM D'HAES: "A highly optimized nonlinear least squares technique for sinusoidal analysis: From $O(K 2N)$ to $O(N \log(N))$ " PREPRINT OF THE 116TH CONVENTION OF THE AUDIO ENGINEERING SOCIETY, 8 May 2004 (2004-05-08), - 11 May 2004 (2004-05-11) pages 1-12, XP009045173 BERLIN, GERMANY	2-5, 8
P, Y	page 1, line 1 - page 11, left-hand column, line 8; figures 1-3	6, 7
A	-----	9, 10, 14, 17, 18
Y	T KARVONEN: "Gauss-Newton-Levenberg-Marquardt-method" Online! 17 May 2003 (2003-05-17), pages 1-5, XP002321797 Retrieved from the Internet: URL: <a href="http://www.water.hut.fi/{tkarvone/sgh_544.htm">http://www.water.hut.fi/{tkarvone/sgh_544.htm</a> } 'retrieved on 2005-03-14' page 2, line 20 - line 21 page 3, line 1 - line 8 -----	6, 7
X	MENGTH: "Lecture 5: Discrete Fourier Transform" HANDOUT AT STANFORD UNIVERSITY, 9 February 2003 (2003-02-09), XP002275706 page 5, line 12 - page 6, line 8 -----	11
P, A	WIM D'HAES: "A highly optimized method for computing amplitudes over a windowed short time signal : From $O(K 2 N)$ to $O(N \log (N))$ " PROCEEDINGS OF THE FOURTH IEEE BENELUX SIGNAL PROCESSING SYMPOSIUM, April 2004 (2004-04), pages 1-4, XP009045189 HILVARENBEEK, THE NETHERLANDS the whole document -----	1-18

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/EP2004/013630

Patent document cited in search report	Publication date	Patent family member(s)	-	Publication date
WO 9530983	A 16-11-1995	US 5504833 A EP 0759201 A1 WO 9530983 A1	-	02-04-1996 26-02-1997 16-11-1995